

GRAIN TRANSPORTATION REPORT

Agricultural Marketing Service
United States Department of Agriculture

FEBRUARY 5, 2002

Containerized Movements of Identity Preserved Grain. Since 1966, container shipping has become a common way to move all types of products, especially high-value cargo. Due to increased costs and lower rates, customer demand and increasingly cost-efficient processes, the use of containers for seaborne cargo has seen a steady increase. Agriculture exports parallel the trend. As specialty grain markets continue to emerge, containerized shipping should also grow. Intermodal transportation models include on-farm trucks and trailers, commercial trucking, rail and ship, all using containers.

As consumer tastes become more sophisticated, processing plants more automated and technology producing characteristics that need to be preserved for different uses and users, shippers find it imperative to preserve grain identity from farm to consumer. Products cannot be contaminated from other cultivars.

- Bulk shipping could require handling of products three or four times. Containerized shipping enhances IP because containers can be loaded and unloaded anywhere truck or rail has access, and sealed until reaching the destination.
- Customers who want just-in-time delivery are better served because a shipment of grain can be harvested and stored in a container, shipped immediately upon purchase and arrive at the destination in as little as three weeks. The bulk system is much more time intensive.
- Containerized grain movements of specialty grains is a way to diversify markets in order to increase profits.
- Vessels being constructed can carry as many as 6,000 TEUs (twenty-foot equivalent units equal to one 20-foot container). A 6,000 TEU ship is equivalent to the number of containers in 15 double stack container trains. As vessel space improves, the number of available slots for a given trade lane on a given day also increases. Ocean freight rates continue to decrease.
- The initial producer may choose to out-source the logistical management to a freight forwarder who knows foreign import requirements, export documentation, various shipping methods and finding the lowest rates for an export shipment. Many agricultural exporters already take advantage of these services.
- Pooling cargo in a shippers' association uses volume-based service contracts and reduces cost.

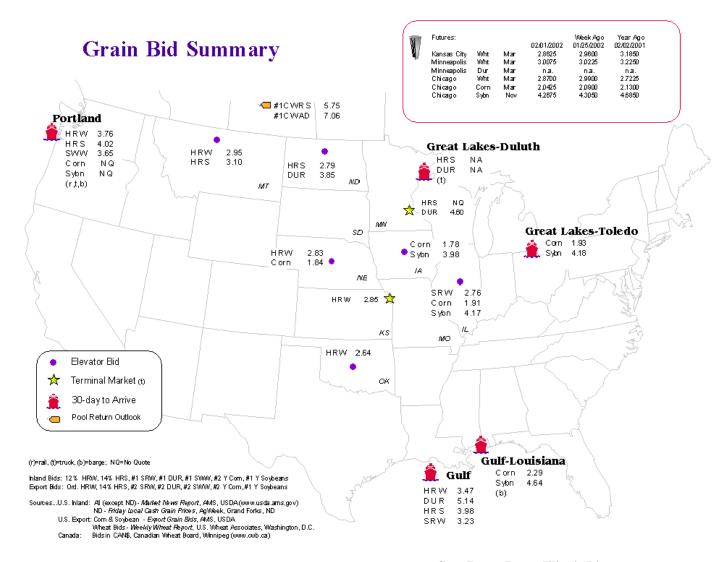
Producers can attain higher profits from containerized movements of IP grain by reducing inventory holds, decreasing transit times, marketing directly to the importer and by charging premiums for a higher-quality, better-handled product.

Containerization may also provide a way for grained producers to even out seasonal fluctuations by storing containers directly on the farm or at a nearby facility. While the actual price of shipping by container may be higher than traditional bulk systems, the logistics process of containerized shipping offer ways to reduce costs by using many services available to shippers.

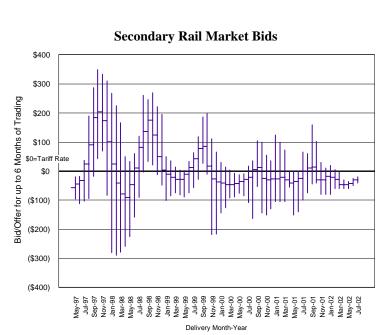
Collectively, this means identity preservation and containerized shipping can meet the interest of producers who want to diversify or specialize, sophisticated customer demands and refined consumer expectations. The technological advancements in communication, production, processing and marketing have, along with low "commodity" grain prices, encouraged IP marketing, too.

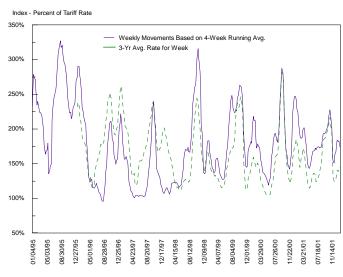
For more information, read "Identity-Preserved Grain: A Logistical Overview" at www.ams.usda.gov/tmd/ipgrain. On February 26, 2002, in cooperation with the South Dakota Wheat Commission, USDA is also conducting a seminar on the logistics of shipping grain via container. For details, go to: http://www.ams.usda.gov/tmd/SD grainseminar.htm or contact Randy Englund, SD Wheat Commission, at: (605) 773-4645.

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Spot Barge Rate - Illinois River





Rail Car 'Auction' Offerings										
Delivery for:	Delivery for: Mar-02 Apr-02									
	Offered	% Sold	Offered	% Sold						
BNSF-COT	12,234	14%	12,966	4%						
UP-GCAS	5,400	10%	5,400	0%						
Source: Transportation & Mar	Source: Transportation & Marketing /AMS/USDA; www.bnsf.com; www.uprr.com									

Secondary Rail Car Market Average Premium/Discount to Tariff, \$/Car - Last Week									
		Delivery	y Period						
	Feb-02	Mar-02	Apr-02	May-02					
BNSF-GF	\$(14)	\$(14)	\$(39)	\$(39)					
UP-Pool	\$(14)	\$(16)	\$(41)	\$(41)					

Source: T&M/AMS/USDA. Data from Atwood/ConAgra., Harvest States Co-op, James B. Joiner Co., Tradewest Brokerage Co.;

GF=Guaranteed Freight, GEEP=Guaranteed Eqpt. Exchange, Pool=Guaranteed Pool

note... bids listed are market INDICATORS only & are NOT guaranteed prices, missing value=No Bid Quoted

Railroad Car 'Auction' Results Average Premium/Discount to Tariff, \$/Car - Last Auction									
Delivery for:	Mar-02	Apr-02	May-02						
COT/N. Grain	no bid	no bid	no bid						
COT/S. Grain	\$0	\$0	\$0						
GCAS/Region 2	no bid	no bid	no bid						
GCAS/Region 4	no bid	no bid	no bid						
Source: T&M/AMS USDA. Data from www.bnsf.com, www.uprr.com, (COT=Certificate of Transportation; GCAS=Grain Car Allocation System)									

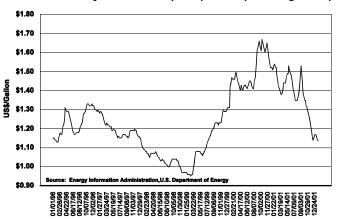
Southbound Barge Freight Nominal/Cash Basis Values Index=Percent of Tariff, Based on 1976 Tariff Benchmark Rate

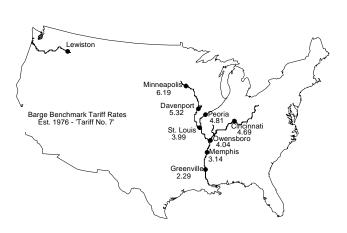
			Ra	te
Week ended	River/Region	Contract Period	Futures	Cash
02/04/02	St. Louis	Jan	0	0
		Mar	128	135
		May	136	135
		Jul	0	135
		Sept	0	0
	Illinois River	Jan	0	0
		Mar	170	163
		May	0	160
		Jul	0	168
		Sept	0	0

Southbound Barge Freight Spot Rates										
	1/30/02	1/23/02	Feb '02	Apr '02						
Twin Cities	0	0	0	198						
Mid-Mississippi	0	0	0	169						
Illinois River	153	158	157	161						
St. Louis	128	138	127	132						
Lower Ohio	132	140	131	135						
Cairo-Memphis	122	126	121	124						
Source: Transportation & M nq=no quote;	Marketing /AMS/US	SDA								

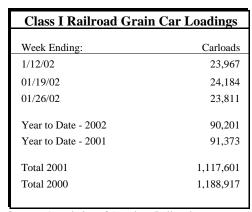
Source: St. Louis Merchants Exchange

Weekly Retail Diesel (Road) Prices (Including Taxes)

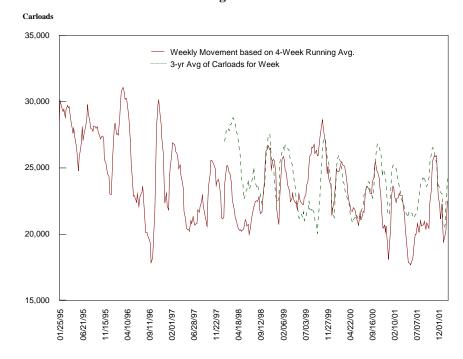




Grain Car Loadings for Class I Railroads



Source: Association of American Railroads



Class I Rail Carrier Grain Car Bulletin

Grain Carloads Originated										
		East			F POPTY !	West	Canada			
	Conrail	CSXT	IC	NS	BNSF	KCS	UP	CN	CP	
01/26/02	0	3,291	0	3,914	9,185	848	6,573	4,137	4,175	
This Week Last Year	0	3,572	0	3,029	10,074	688	6,998	4,740	5,820	
2002 YTD	0	12,895	0	12,546	34,585	2,931	27,244	16,755	15,525	
2001 YTD	0	13,505	0	13,032	35,840	1,988	27,008	18,593	20,007	
2001 Total	0	151,864	0	163,018	428,603	26,330	347,156	254,982	232,461	
2000 Total	0	147.708	70.155	153,905	425.849	26.515	364.785	160,749	239.670	

Source: Association of American Railroads

Tariff Rail Rates for Unit Train Shipments

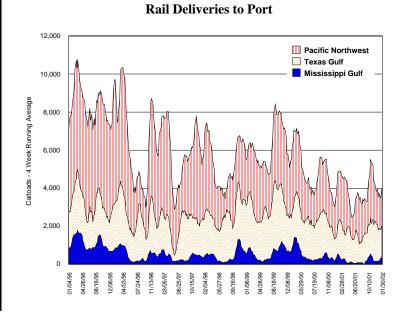
Ianuary	2002	

January 2002							
Date Effective	Tariff Item	Commodity	Origin	Destination	Rate Per Car	Rate Per MT	Rate/Per Bushel*
02/04/02	45560	Wheat	Minneapolis, MN	Houston, TX	\$2,050	\$22.60	\$0.62
02/04/02	43521	Wheat	Minneapolis, MN	Portland, OR	\$3,877	\$42.74	\$1.16
02/04/02	46540	Wheat	Kansas City, MO	Houston, TX	\$1,650	\$18.19	\$0.50
02/04/02	43586	Wheat	Kansas City, MO	Portland, OR	\$4,347	\$47.92	\$1.30
02/04/02	43581	Wheat	Omaha, NE	Portland, OR	\$4,005	\$44.15	\$1.20
02/04/02	31040	Corn	Minneapolis, MN	Portland, OR	NA	\$0.00	\$0.00
02/04/02	31035	Corn	Kansas City, MO	Portland, OR	\$2,700	\$29.76	\$0.76
02/04/02	31040	Corn	Omaha, NE	Portland, OR	NA	\$0.00	\$0.00
02/04/02	61180	Soybean	Minneapolis, MN	Portland, OR	NA	\$0.00	\$0.00
02/04/02	61180	Soybean	Omaha, NE	Portland, OR	NA	\$0.00	\$0.00
05/01/98	61180	Soybean	Omaha, NE	Portland, OR	\$2,780	\$25.23	\$0.83

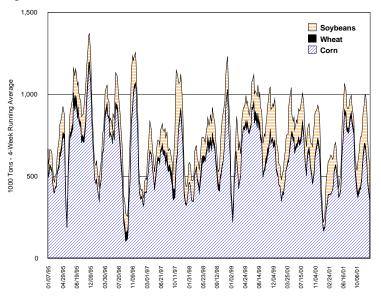
Source: www.bnsf.com

Approximate load per car = 100 tons: Corn 56 lbs/bu, Wheat & Soybeans 60 lbs/bu

Rail Delive Carloads	eries to Por	t		
	Mississippi Gulf	Texas Gulf	Pacific Northwest	Atlantic & East Gulf
Week Ending:				
12/26/01	59*	1,448	2,309	586
01/02/02	250*	1,263	1,137	717
01/09/02	195*	2,289	2,029	966
01/16/02	402*	1,357*	1,472	1,307
01/23/02	382*	1,118*	2,110	965
01/30/02	524*	1,841*	2,291	873
YTD 2002	1,503*	6,605*	7,902	4,111
YTD 2001	1,508	4,466	9,161	2,869
Total 2000	25,675	105,308	129,464	14,816
Total 1999	30,038	132,069	161,492	14,446
Source: Transpo	ortation & Mark	eting/AMS/	USDA	



Barge Movements - Locks 27



Barge Grain Moves for week ending 1/26/02	ments			
	Corn	Wht 1,00	Sybn 0 Tons	Total
Mississippi River				
Rock Island, IL (L15)	0	0	0	0
Winfield, MO (L25)	0	0	0	0
Alton, IL (L26)	440	6	208	659
Granite City, IL (L27)	433	6	216	660
Illinois River (L8)	336	7	162	510
Ohio (L52)	216	14	107	369
Arkansas (L1)	0	22	10	33
2002 YTD	2,162	141	1,021	3,478
2001 YTD	1,539	176	565	2,466
Total 2001	31,878	2,679	10,616	47,091
Total 2000	33,482	2,518	10,327	48,247

Miss YTD: Calendar year totals include Miss/27, Ohio/52 and Ark/1. Source: U.S. Army Corp of Engineers; L15 & L25 closed for winter.

^(*) Incomplete Data

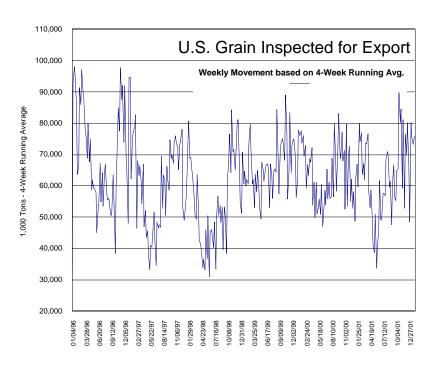
^(**) Revised Data

U.S. Export Balances (1,000 Metric Tons)

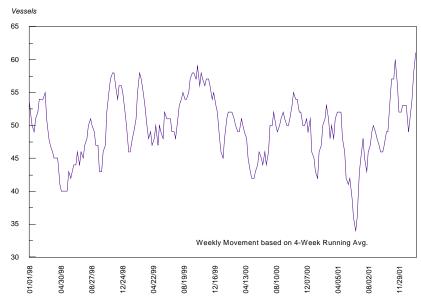
				Wheat			Corn	Soybean	Total
	HRW	SRW	HRS	SWW	DUR	All			
Unshipped Exports-Crop Year									
01/24/02	1,407	678	974	505	182	3,746	7,657	7,641	19,044
This Week Year Ago	1,107	454	973	981	140	3,654	7,071	6,446	17,171
Cumulative Exports-Crop Year									
00/01 YTD	5,543	3,731	3,636	2,212	812	15,932	16,841	16,026	48,799
99/00 YTD	6,332	3,030	3,642	3,324	807	17,133	18,382	17,713	53,228
97/98 Total	9,858	4,710	6,305	5,413	1,232	27,518	37,220	24,516	89,254
96/97 Total	7,387	3,645	7,864	6,105	963	25,965	44,476	24,501	94,942

 $Source: Foreign\ Agricultural\ Service\ YTD-Year-to-Date\ (www.fas.usda.gov)\ Crop\ Year: Wheat=5/31-6/01,\ Corn\ \&\ Soybeans=9/01-8/31$

Select U.S. Por	t Regions -	Grain	Inspections	for Expo	rt - 1,000) Metric Ton	S			
		Pacific R	egion	<u>N</u>	Mississippi	i Gulf		Texas Gulf		
	Wheat	Corn	Soybean	Wheat	Corn	Soybean	Wheat	Corn	Soybean	
01/31/02	187	129	42	106	621	789	81	0	56	
2001 YTD	823	405	90	327	2,566	3,037	444	0	403	
2000 YTD	687	465	227	403	2,392	1,628	325	20	113	
% of Last Year	8%	7%	5%	5%	7%	17%	6%	0%	40%	
1998 Total	10,838	4,373	651	5,048	31,330	14,917	7,270	562	1,392	
Source: Federal Grain In	YTD-Yea	r-to-Date			·	·				



Select Canadian Ports - Export Inspections 1,000 Metric Tons, Crop Year							
Week Ended: 01/31/02	Wheat	<u>Durum</u>	Barley				
Week Ended. 01/31/02							
Vancouver	3,613	220	323				
Prince Rupert	562	0	0				
Prairie Direct	782	257	146				
Thunder Bay	294	191	45				
St. Lawrence	1,491	904	26				
2001 YTD Exports	6,742	1,572	540				
2000 YTD Exports	6,221	1,679	843				
% of Last Year	108%	94%	64%				
Source: Canadian Grains Commission, Crop year 8/1-7/31							

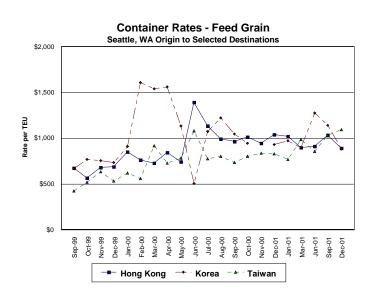


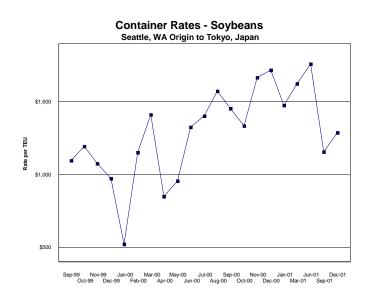
Gulf Region Vessels Loaded - Past 7 Days-

	Gulf		Pacif	Pacific Northwest		Vancouver, B.C.		
	In Port	Loaded <u>7-Days</u>	Due Next 10-Days	In Port	Loaded Due Next 7-Days 10-Days	<u>In Port</u>	Loaded 7-Days	Due Next 10-Days
01/24/02	38	62	81	8		4	7	3
01/31/02	39	54	80	12		6	6	6
1999 Range	(1447)	(3965)	(3480)	(618)		(220)	(215)	(09)
1998 Range	(1962)	(3464)	(4093)			(119)	(314)	(010)
1999 Avg	32	52	65			9	9	3
1998 Avg	40	48	61			10	9	3
1997 Avg	33	45	58					

Container Ocean Freight Rates

Monthly Weighted Averages Based on Shipping Line Monthly Mkt. Share

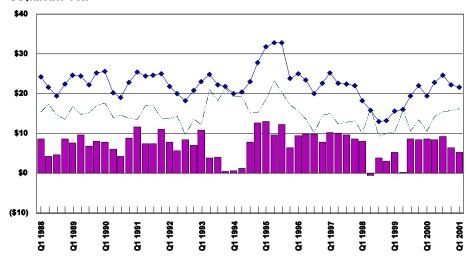




→ Rate - Gulf to Japan
---- Rate - PNW to Japan

Spread - Gulf vs. PNW to Japan

US\$/Metric Ton



Quarterly Ocean Freight Rates

	2001 4 th Qtr	2000 4 th Qtr	% Change		2001 4 th Qtr	2000 4 th Qtr	% Change
Gulf to				Pacific NW to			
Japan	\$16.25	\$22.38	-27%	Japan	\$9.64	\$15.87	-39%
Mexico		\$13.39	-	Red Sea/ Arabian Sea		\$26.70	-
Venezuela		\$13.29	-				
N. Europe	\$11.73	\$14.96	-22%	Argentina to			
N. Africa	\$16.98	\$22.26	-24%	Med. Sea	\$17.47		-
Med. Sea	\$10.58	\$15.19	-30%	N. Europe	\$16.22	\$18.97	-14%
				Japan	\$26.33		-

Ocean Freight Rate	es (Select Locations) - week	Volume Loaded	Freight Rate		
Export Region	Import Region	Grain	Month	(Tons)	(\$Ton)
Gulf	Ireland	Grains	Jan 29/30	30,000	\$14.00
Gulf	Rotterdam	Heavy Grain	Feb 11/20	55,000	\$9.00
Gulf	Rotterdam	Grains	Jan 29/30	55,000	\$12.18
Gulf	Italy	Wheat	Feb 1/10	58,150	\$11.00
Gulf (Texas)	Egypt	Heavy Grain	Feb 1/10	45,000	\$10.40
Gulf	Egypt	Heavy Grain	Feb 1/10	60,000	\$9.65
River Plate	Jordan	Wheat	Feb 5/20	50,000	\$18.00
Turkey	Morocco	Barley	Feb 1/5	25,000	\$9.00